

AVMI Air Vehicle Modification & Instrumentation

Air Vehicle Modification and Instrumentation (AVMI) offers support capability at each range site.

AVMI is comprised of three divisions: the Aircraft Instrumentation Division, the Airborne Instrumentation Systems Division and the Mechanical Solutions Division. The three divisions cooperatively design, develop, manufacture, install and provide operational support of advanced instrumentation and imagery systems for the Navy's aircraft and weapons. They also perform air vehicle modifications required for the installation of prototype or low production rate systems.

AVMI provides a variety of specialized test hardware and software, and designs, develops, qualifies and manufactures technologically advanced instrumentation systems for aircraft and weapons. AVMI provides three-dimensional computer modeling, analysis and reverse engineering of mechanical components and systems, and prototypes aircraft modifications for test and evaluation and Fleet support. Other services include flight clearance for instrumentation and NAVAIR air worthiness support for structural modifications.

AVMI provides source data and air vehicle modifications necessary to support the NAVAIR test and evaluation community. AVMI engineers proactively participate with other DoD activities, academia and industry on national initiatives dedicated to the advancement of technologies associated with physical measurement, data acquisition, data communications, networking, telemetry and data processing. AVMI also provides resources for rapid innovative solutions to unique prototyping needs of the Navy fleet. AVMI consists of three divisions located nationally.



for more information

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www.navair.navy.mil/ranges

mechanical solutions division

The Mechanical Solutions Division is located at Patuxent River. The Division designs, builds and installs prototype aircraft and field system installations. It provides customers with a fully integrated engineering design, machining, sheet metal, composite fabrication, prototype modeling, and installation capability.

aircraft instrumentation division

The Aircraft Instrumentation Division is located at Patuxent River. The Division designs, develops, builds, installs, calibrates and provides operational support of flight test aircraft instrumentation and telemetry systems and provides airborne video data support.

airborne instrumentation systems division

The Airborne Instrumentation Systems Division is co-located at China Lake and Point Mugu. The Division designs, develops, builds, installs, calibrates and provides operational support of miniaturized airborne weapons instrumentation and telemetry systems.

Air Vehicle Modification & Instrumentation:

- Provides source systems for decision-quality data
- Designs, develops, qualifies and manufactures technologically advanced instrumentation systems for aircraft and weapons
- Advances national efforts for the design and development of common instrumentation systems
- Provides three-dimensional computer modeling, structural analysis and reverse engineering of mechanical components and systems
- Prototypes aircraft modifications for test and evaluation and Fleet support
- Provides flight clearance for instrumentation and NAVAIR air worthiness support for structural modifications
- Offers aircraft structural ground testing facility and laboratory

